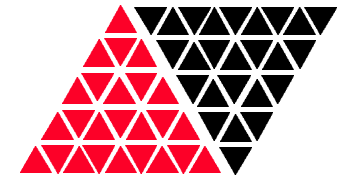
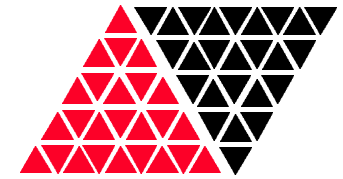


# Why the EACM

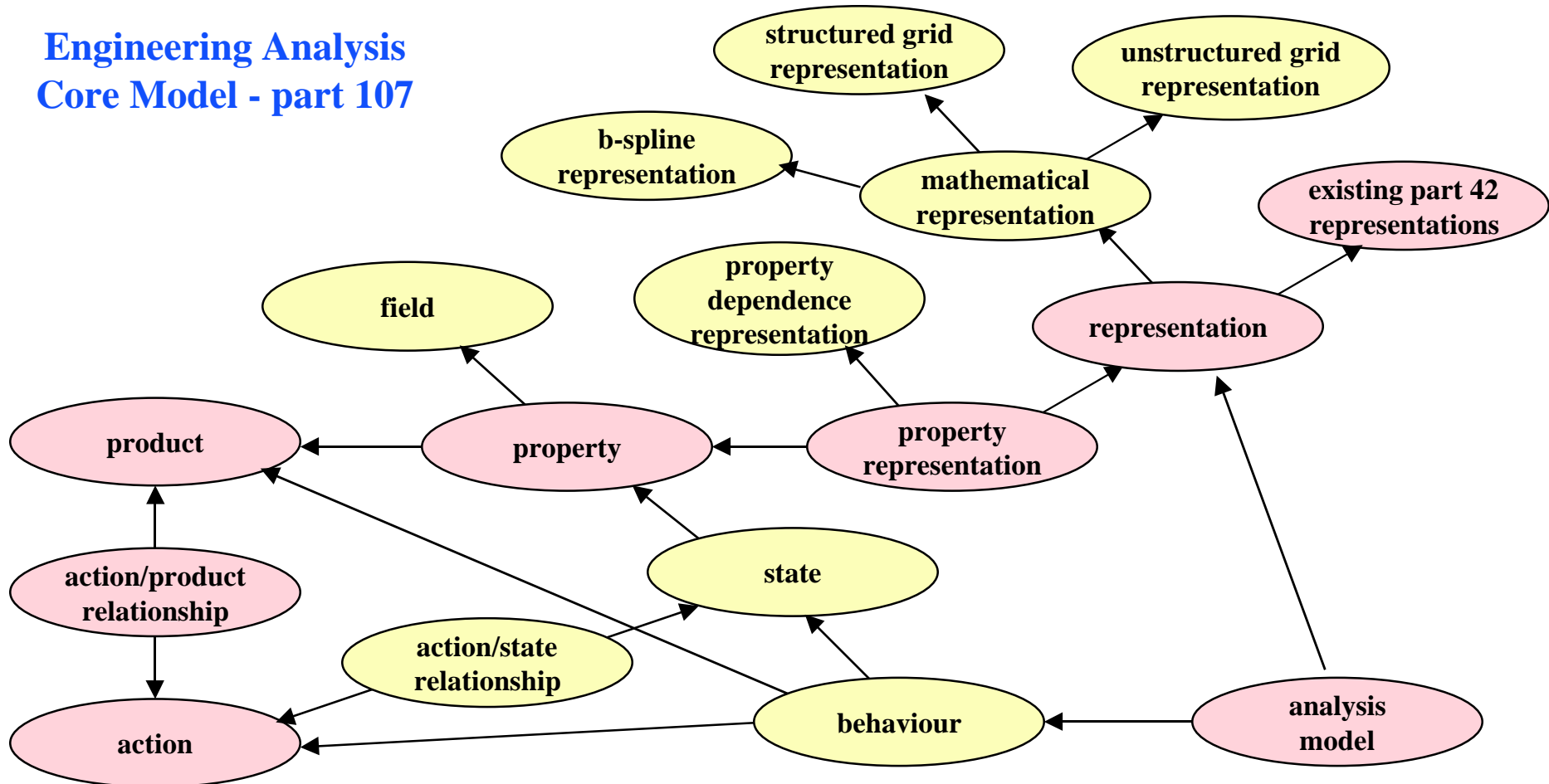


- **AP 209 supports the exchange of a particular Finite Element Analysis solution to a problem**
- **We need to exchange the problem**
  - » The same problem can have many approaches to its solution
- **Engineering analysis is multi-disciplinary**
  - » thermal, radiative, CFD, structural dynamics, control systems
  - » mixes of different solution methods
  - » links to material and product test data
- **Put modules together to suit the problem**

# Modules for engineering analysis

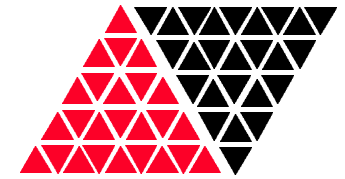


Engineering Analysis  
Core Model - part 107



# Modularisation - adds strong semantics

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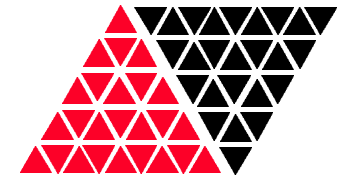
STEP began in piece part manufacture, so:

- a product is not an individual thing but a specification to which we can make many individual things

but:

- a process plant or electrical network consists of individual things
- a material batch (which is supplied and tested) is an individual thing
- an analyse or test activity is carried out on an individual thing

# Conclusions



- **first objective - reap benefits from AP 209**
  - » new opportunities in benchmark publishing
  - » AP 209 showcase
  - » AP 209 translator validation
- **broaden the scope of engineering analysis**
  - » more disciplines and new solution methods
  - » measurements and test data
  - » use of the mathematical representation schema
- **a repository of engineering analysis information**
  - » archiving of engineering analysis information
  - » data sharing and integration of engineering analysis information
  - » not only products have PDM